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L1 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN Comparison of methods for simulating effects of nitrogen on green area index and dry matter growth in winter wheat.

Crop simulation models are increasingly being used to simulate the response of crop production to variation in input use. Current and widely used crop models differ strongly in the way in which green area index (GAI) and radiation use efficiency (RUE) is affected by nitrogen (N) supply. Three different methods of simulating effect of N on development of GAI were tested in combination with three different methods of simulating effects of N on RUE. The methods tested represent functions applied in three existing wheat simulation models: FASSET, Sirius and ${\tt DAISY.}$ GAI depends in FASSET on crop dry weight, temperature and N uptake, in Sirius on temperature and N uptake, and in DAISY GAI depends on dry weight and temperature. Sirius has no effect of N on RUE, DAISY uses a segmented linear response function, and FASSET uses a curvilinear response. The different methods were implemented in the FASSET model framework, and maximum RUE at optimal N supply was calibrated for each model combination using 4 years of growth analysis data from an experiment in winter wheat with three rates of mineral N fertiliser at Research Centre Foulum, Denmark. The model combinations were validated using 2 years of growth analysis data from an experiment at Research Centre Foulum with different timing of N application. The model combinations were tested against grain yield response to increasing N supply from a series of N fertiliser experiments in Denmark. The observed development of GAI and dry weight over time in the calibration and validation data sets could be reproduced by all combinations of GAI and RUE models. This shows that a large variation in N supply rates is more important than detailed sampling over time when validating and testing crop response to N supply. The observed response of grain yield to increasing rates of mineral N fertiliser could be reproduced by most of the model combinations.

However, the yield increase was overestimated with the use of a segmented

linear response of RUE to N supply, and the optimal N rate was

underestimated when the N response of RUE was ignored.

ACCESSION NUMBER: 2002:257131 BIOSIS DOCUMENT NUMBER: PREV200200257131

TITLE: Comparison of methods for simulating effects of nitrogen on

green area index and dry matter growth in winter wheat.

AUTHOR(S): Olesen, J. E. [Reprint author]; Petersen, B. M.; Berntsen, J.; Hansen, S.; Jamieson, P. D.; **Thomsen, A. G.**

J.; Hallsen, S.; Jamieson, F. D.; Thomsen, A. G.

CORPORATE SOURCE: Department of Crop Physiology and Soil Science, Research

Centre Foulum, DK-8830, Tjele, Denmark

jorgene.olesen@agrsci.dk

SOURCE: Field Crops Research, (March 15, 2002) Vol. 74, No. 2-3,

pp. 131-149. print.

ISSN: 0378-4290.

DOCUMENT TYPE:

Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 24 Apr 2002

Last Updated on STN: 24 Apr 2002

=> s smurf polypeptide

L2 0 SMURF POLYPEPTIDE

=> s smad polypeptide

L3 65 SMAD POLYPEPTIDE

=> s 13 and ubiquitination

L4 2 L3 AND UBIOUITINATION

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 2 USPATFULL on STN

TI Compositions and methods for cell dedifferentiation and tissue regeneration

The present invention provides methods and compositions to dedifferentiate a cell. The ability of the methods and compositions of the present invention to promote the dedifferentiation of differentiated cells, including terminally differentiated cells, can be used to promote regeneration of tissues and organs in vivo. The ability of the methods and compositions of the present invention to promote the dedifferentiation of differentiated cells, including terminally differentiated cells, can further be used to produce populations of stem or progenitor cells which can be used to promote regeneration of tissues and/or organs damaged by injury or disease. Accordingly, the present invention provides novel methods for the treatment of a wide range of injuries and diseases that affect many diverse cell types.

ACCESSION NUMBER: 2004:114177 USPATFULL

TITLE: Compositions and methods for cell dedifferentiation and

tissue regeneration

INVENTOR(S): Keating, Mark T., Chestnut Hill, MA, UNITED STATES

Odelberg, Shannon J., Salt Lake City, UT, UNITED STATES

Poss, Kenneth D., Brookline, MA, UNITED STATES

PATENT ASSIGNEE(S): University of Utah Research Foundation, Salt Lake City,

UT, UNITED STATES, 84112 (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004087016	A1	20040506	
APPLICATION INFO.:	US 2002-302812	A1	20021122	(10

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-275828, filed on 4 Apr 2003, PENDING A 371 of International Ser. No.

NUMBER DATE ______

PRIORITY INFORMATION: US 2000-204080P 20000512 (60)

> US 2000-204081P 20000512 (60)

> US 2000-204082P 20000512 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, LEGAL REPRESENTATIVE:

02110-2624

NUMBER OF CLAIMS: 63 EXEMPLARY CLAIM: 1 LINE COUNT: 10731

ANSWER 2 OF 2 USPATFULL on STN

Methods for modulating signal transduction mediated by TGF-beta related ΤI

Methods are provided for identifying agents that modulate signaling AB mediated by transforming growth factor beta (TGF- β) and members of the TGF- β family, such as bone morphogenic protein (BMP). Such agents may be identified using screens that evaluate candidate agents for the ability to modulate Smad protein degradation. Agents identified as described herein may be used to augment or inhibit signaling mediated by one or more $TGF-\beta$ family members in a variety of cell types and

for therapeutic purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:173228 USPATFULL

Methods for modulating signal transduction mediated by TITLE:

TGF-beta related proteins

INVENTOR (S): Hoekstra, Merl F., Cardiff-by-the-sea, CA, UNITED

STATES

Xie, Weilin, San Diego, CA, UNITED STATES Murray, Brion W., San Diego, CA, UNITED STATES

Mercurio, Frank M., Del Mar, CA, UNITED STATES

Signal Pharmaceuticals, Inc. (U.S. corporation) PATENT ASSIGNEE(S):

> NUMBER KIND \mathtt{DATE} -----

US 2003119072 A1 20030626 US 2002-307956 A1 20021202 PATENT INFORMATION:

APPLICATION INFO.: 20021202 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-385918, filed on 30 Aug

1999, PENDING

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW LEGAL REPRESENTATIVE:

YORK, NY, 100362711 ·

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 12 Drawing Page(s)

LINE COUNT: 1625

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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<u>L9</u>	L8 and 16	0	<u>L9</u>
<u>L8</u>	L5 and (screening assay)	1640	<u>L8</u>
<u>L7</u>	L6 and 15	0	<u>L7</u>
<u>L6</u>	thomsen.in.	688	<u>L6</u>
<u>L5</u>	L4 and 13	1645	<u>L5</u>
<u>L4</u>	L1 and ubiquitination	1645	<u>L4</u>
<u>L3</u>	L2 and ubiquitination	1645	<u>L3</u>
<u>L2</u> .	Smurf polypeptide	51529	<u>L2</u>
<u>L1</u>	smad polypeptide	51596	<u>L1</u>

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1. Document ID: US 6946545 B2

L8: Entry 1 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946545

DOCUMENT-IDENTIFIER: US 6946545 B2

TITLE: Isolated human kinase proteins, nucleic acid molecules encoding human kinase

proteins, and uses thereof

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Yan; Chunhua Boyds MD
Ketchum; Karen A. Germantown MD
Di Francesco; Valentina Rockville MD
Beasley; Ellen M. Darnestown MD

US-CL-CURRENT: <u>530/387.1</u>; <u>435/194</u>, <u>530/350</u>, <u>530/387.9</u>

Full Title	Citation		Classification			KWIC	Draw Deso	ima
			333.53					

2. Document ID: US 6946544 B2

L8: Entry 2 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946544

DOCUMENT-IDENTIFIER: US 6946544 B2

TITLE: XAF genes and polypeptides: methods and reagents for modulating apoptosis

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Korneluk; Robert G. Ottawa CA Tamai; Katsuyuki JΡ Nagano Liston; Peter Ottawa CA MacKenzie; Alexander E. Ottawa CA

US-CL-CURRENT: <u>530/350</u>

Full Ti	itle Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	lma

3. Document ID: US 6946276 B2

L8: Entry 3 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946276

DOCUMENT-IDENTIFIER: US 6946276 B2

TITLE: Isolated human kinase proteins, nucleic acid molecules encoding human kinase

proteins, and uses thereof

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Webster; Marion San Francisco CA
Yan; Chunhua Boyds MD
Di Francesco; Valentina Rockville MD
Beasley; Ellen M. Damestown MD

US-CL-CURRENT: 435/194; 435/252.3, 435/320.1, 435/325, 435/6, 536/23.2

4. Document ID: US 6946256 B1

L8: Entry 4 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946256

DOCUMENT-IDENTIFIER: US 6946256 B1

TITLE: Cell regulatory genes, encoded products, and uses related thereto

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

CITY STATE ZIP CODE COUNTRY. NAME McKeon; Frank Boston MΑ Boston MA Yang; Annie MA Belmont Loda; Massimo Brookline MA Signorretti; Sabina Brookline ΜA Crum; Christopher

 $\text{US-CL-CURRENT: } \underline{435/7.1}; \ \underline{424/130.1}, \ \underline{424/131.1}, \ \underline{424/134.1}, \ \underline{424/135.1}, \ \underline{436/500}, \ \underline{436/501}, \\ \underline{436/500}, \ \underline{436/501}, \$

436/512

FUI	Title	Citation	Front	Review	Classification	Date	Reference		🍇 Claims i	KOMC	Draw Desc
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5. Document ID: US 6946247 B1

L8: Entry 5 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946247

DOCUMENT-IDENTIFIER: US 6946247 B1

TITLE: RNAse probe protection assays in screening for modulators of immunoglobulin

germline transcription

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Swift; Susan E. Menlo Park CA Bogenberger; Jakob M. San Mateo CA

US-CL-CURRENT: 435/6; 435/440

Full Title Citation Front Review Classification Date Reference

6. Document ID: US 6946134 B1

L8: Entry 6 of 1640 File: USPT Sep 20, 2005

US-PAT-NO: 6946134

DOCUMENT-IDENTIFIER: US 6946134 B1

TITLE: Albumin fusion proteins

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Rosen; Craig A. Laytonsville MD Haseltine; William A. Washington DC

US-CL-CURRENT: 424/192.1; 435/320.1, 435/6, 435/7.1, 514/12, 530/350, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWC | Draw Desc | Imag

7. Document ID: US 6943278 B2

L8: Entry 7 of 1640 File: USPT Sep 13, 2005

US-PAT-NO: 6943278

DOCUMENT-IDENTIFIER: US 6943278 B2

TITLE: Transgenic Drosophila having a disrupted Parkin gene and exhibits reduced climbing

ability

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Chung; Jongkyeong Yusong-Gu Taejon KR

US-CL-CURRENT: 800/13; 800/12, 800/3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Ima

8. Document ID: US 6943003 B2

L8: Entry 8 of 1640 File: USPT Sep 13, 2005

US-PAT-NO: 6943003

DOCUMENT-IDENTIFIER: US 6943003 B2

TITLE: Isolated human phospholipase proteins, nucleic acid molecules encoding human

phospholipase proteins, and uses thereof

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Yan; Chunhua Boyds MD
Ketchum; Karen A Germantown MD
Di Francesco; Valentina Rockville MD
Beasley; Ellen M Darnestown MD

US-CL-CURRENT: 435/198; 435/252.3, 435/320.1, 536/23.2

FUR HIS	Citation Front	Review Classification	Date Reference	Claims	KMIC	Draw Desc	Im

9. Document ID: US 6943001 B2

L8: Entry 9 of 1640 File: USPT Sep 13, 2005

US-PAT-NO: 6943001

DOCUMENT-IDENTIFIER: US 6943001 B2

TITLE: Epoxide hydrolases, nucleic acids encoding them and methods for making and using

them

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

COUNTRY NAME CITY STATE ZIP CODE CA Zhao; Lishan Carlsbad Mathur; Eric J. Carlsbad CA CA Weiner; David Del Mar CA Richardson; Toby San Diego CA Milan; Aileen San Diego Burk; Mark J. San Diego CA CA Han; Bin San Diego Short; Jay M. Rancho Santa Fe CA

US-CL-CURRENT: 435/195; 435/18, 435/252.3, 435/254.1, 435/255.1, 435/320.1, 435/325, 435/410, 536/23.2, 536/24.33

Full Title	Citation Front	Review C	lassification	Date	Reference	Claims	KWWC	Draw	Desc	emi
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	Document ID			•••••			***********	*********	~~~~~	*******

US-PAT-NO: 6942999

DOCUMENT-IDENTIFIER: US 6942999 B2

TITLE: Isolated human enzyme proteins, nucleic acid molecules encoding human enzyme

proteins, and uses thereof

DATE-ISSUED: September 13, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY
Shao; Wei Frederick MD

Merkulov; Gennady V. Baltimore MD
Di Francesco; Valentina Rockville MD
Beasley; Ellen M. Darnestown MD

US-CL-CURRENT: 435/190; 435/252.3, 435/320.1, 435/325, 435/6, 536/23.2

Full Title Citation Front Review Classification Date R	eference Claims KMC Draw Desc
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